

# New York State Department of Transportation

## Yellow Flag NB2228W002

By: Ben Colangelo

Flag Date: March 15, 2022

Superseding Information:

This flag supersedes: YF NB21Q9W001

### Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

### Verbal Notification Information

Person Notified: Not Contacted

Date:

Of:

### Signature Information

Signature: Ben Colangelo, P.E. 068498

Date: March 23, 2022

Reviewed By: Robert Kemp

Date: March 23, 2022

Attachments: 7

### **Flagged Elements**

<b>Parent Element</b>	<b>Element</b>	<b>Total Quantity</b>	<b>Unit</b>
<b><i>Span Number : 30</i></b>			
	107 - Steel Open Girder/Beam	1131	ft
	PR831 - Steel Beam End	42	each

### **Flagged Condition Description**

This Yellow Flag No. NB2228W002 supersedes existing Yellow Flag No. NB21Q9W001.

Location: Span 30 Girder G1 at Pier 30

Description: The left connection angle at Girder G1 connection to the Pier 30, left Column C1 exhibits a 12" long x 3/16" wide vertical crack at the lower fillet section, beginning at the base of the angle. This crack represents a loss of approximately 41% of the angle's total height of 29". There was no change from the previous inspection at this location. The right connection angle between Girder G1 and of Pier 30 (left Column C1) exhibits a 8-3/8" long x 1/8" wide vertical crack beginning 1/2" from the base of the angle. This crack has increased in length by 1-1/8" from 7-1/4" to 8-3/8" since the previous inspection. This crack represents a loss of approximately 29% of the angle's total height of 29".

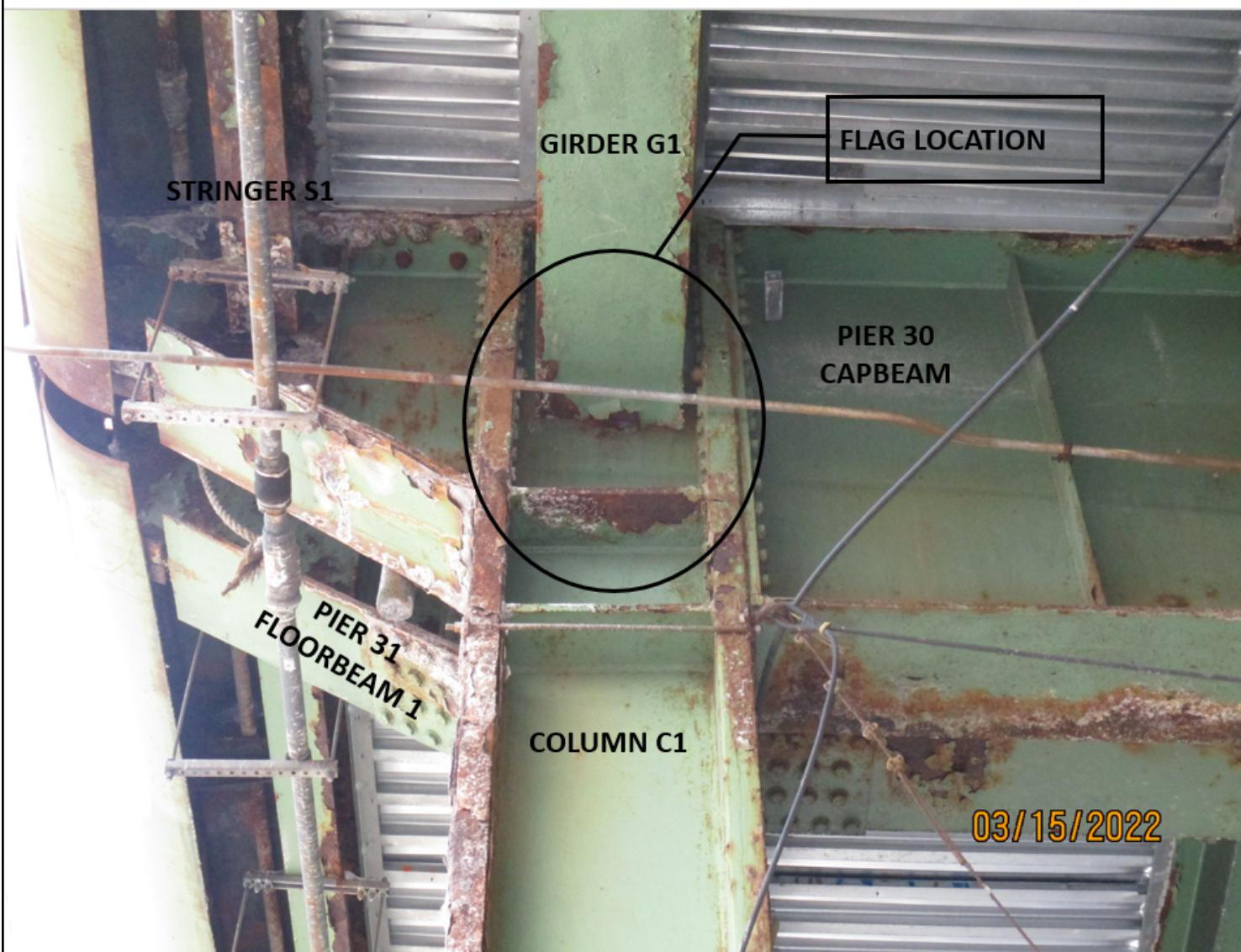
Notes:

- 1.Girder G1 is a load path redundant member.
- 2.Adjacent Girder G2 is in good condition. No distress was observed in the structural deck above this area and no distress was found in the column web.
- 3.Access to this location is by a 35' bucket truck in a right lane closure in the Verrazano Bound roadway of 65th Street, at the southeast corner of the intersection with 4th Avenue. Access can also be done from the sidewalk.

**Flag Photographs**

Photo Number: 1

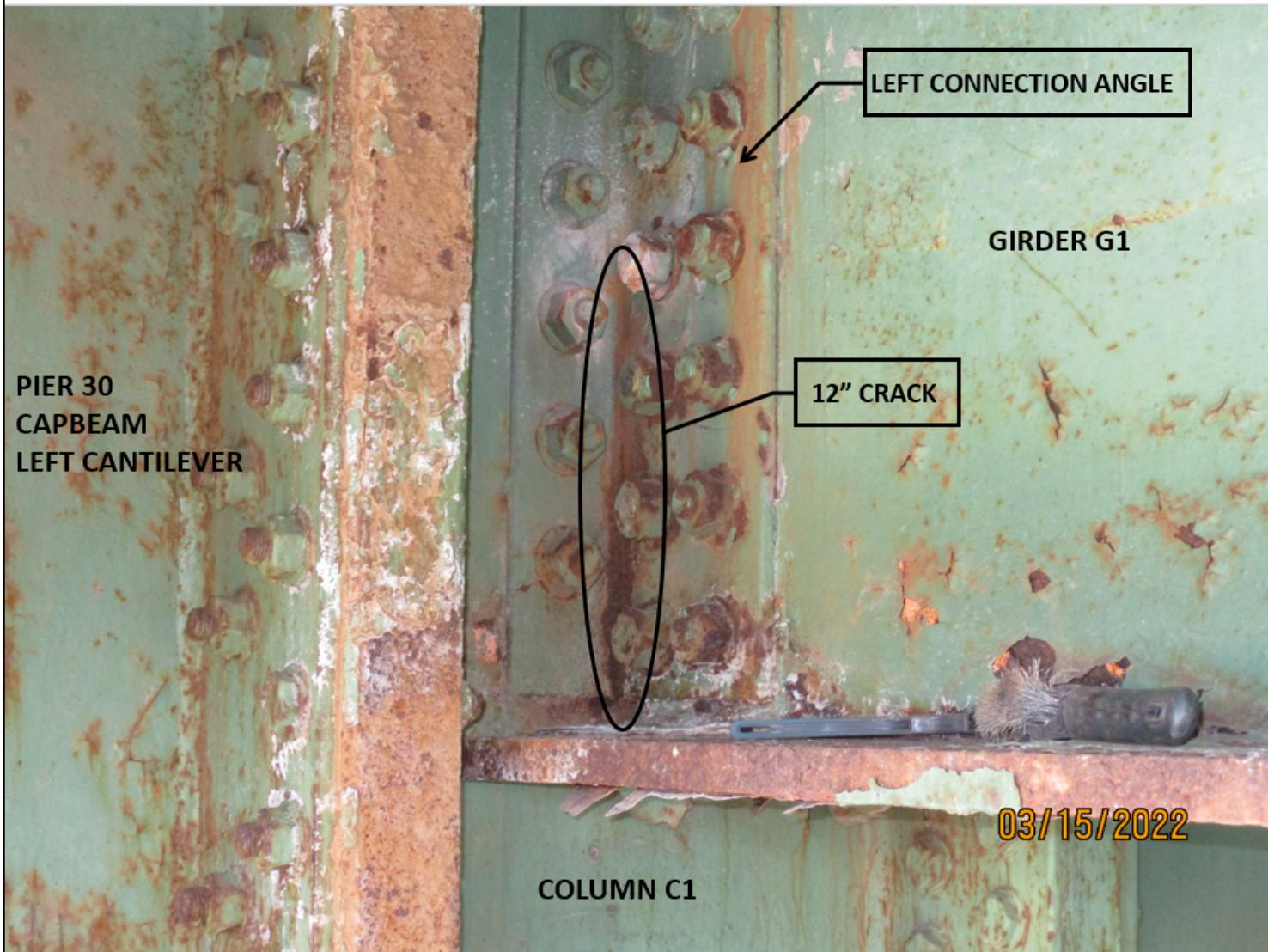
Photo Filename: BC 2-2765.png



**Attachment Description:** Span 30 Girder G1 at Pier 30 Column C1. General view of Girder G1 at Pier 30. Looking end and up.

Photo Number: 2

Photo Filename: BC 2-2728.PNG



**Attachment Description:** Span 30 Girder G1 at Pier 30 Column C1. General view of left connection angle before dye penetrant test. Looking end and right.

Photo Number: 3

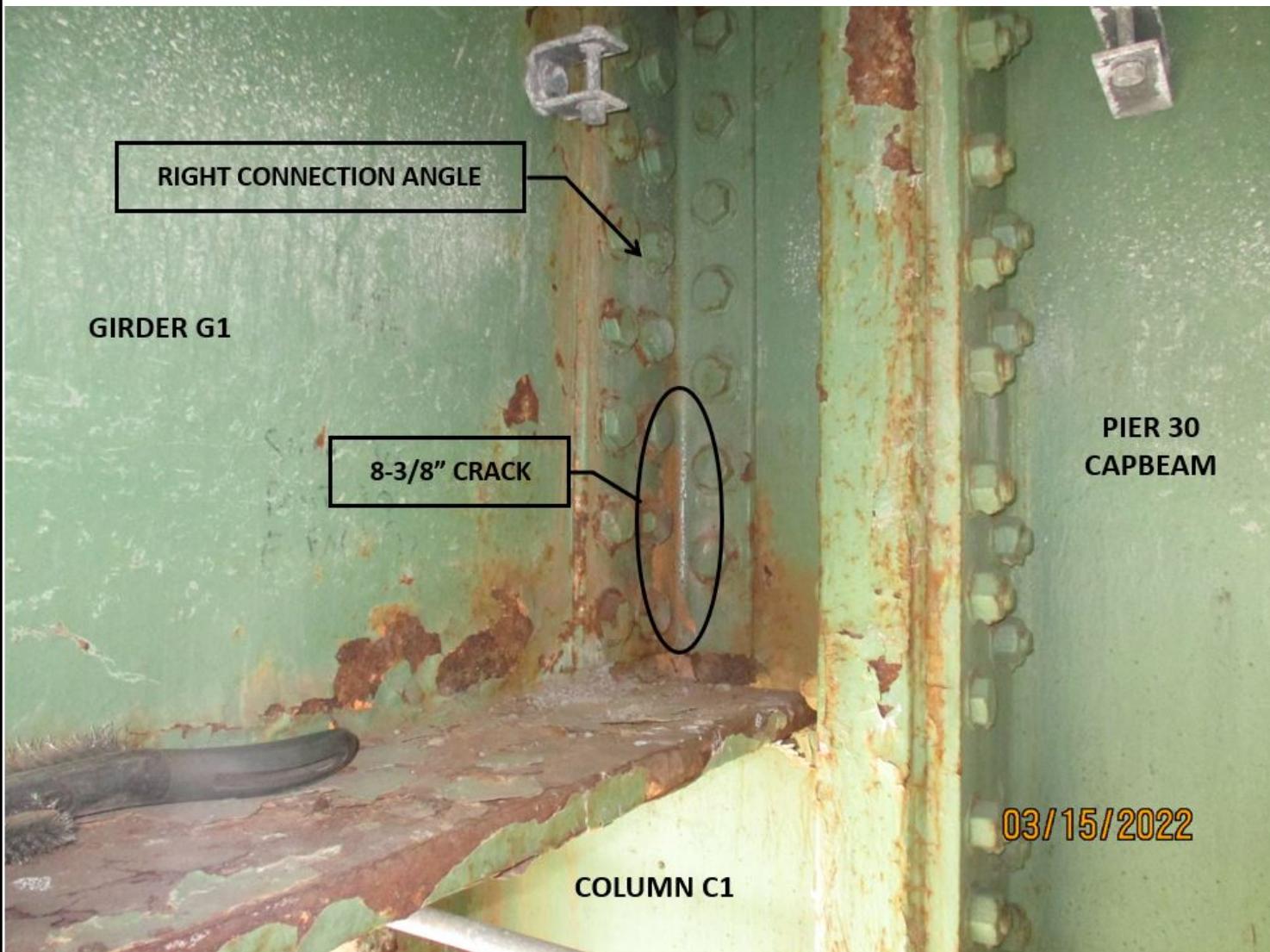
Photo Filename: BC 2-2723.jpg



**Attachment Description:** Span 30 Girder G1 at Pier 30 Column C1. Close-up view of left connection angle crack after dye-penetrant test at upper end of crack. Looking end and right.

Photo Number: 4

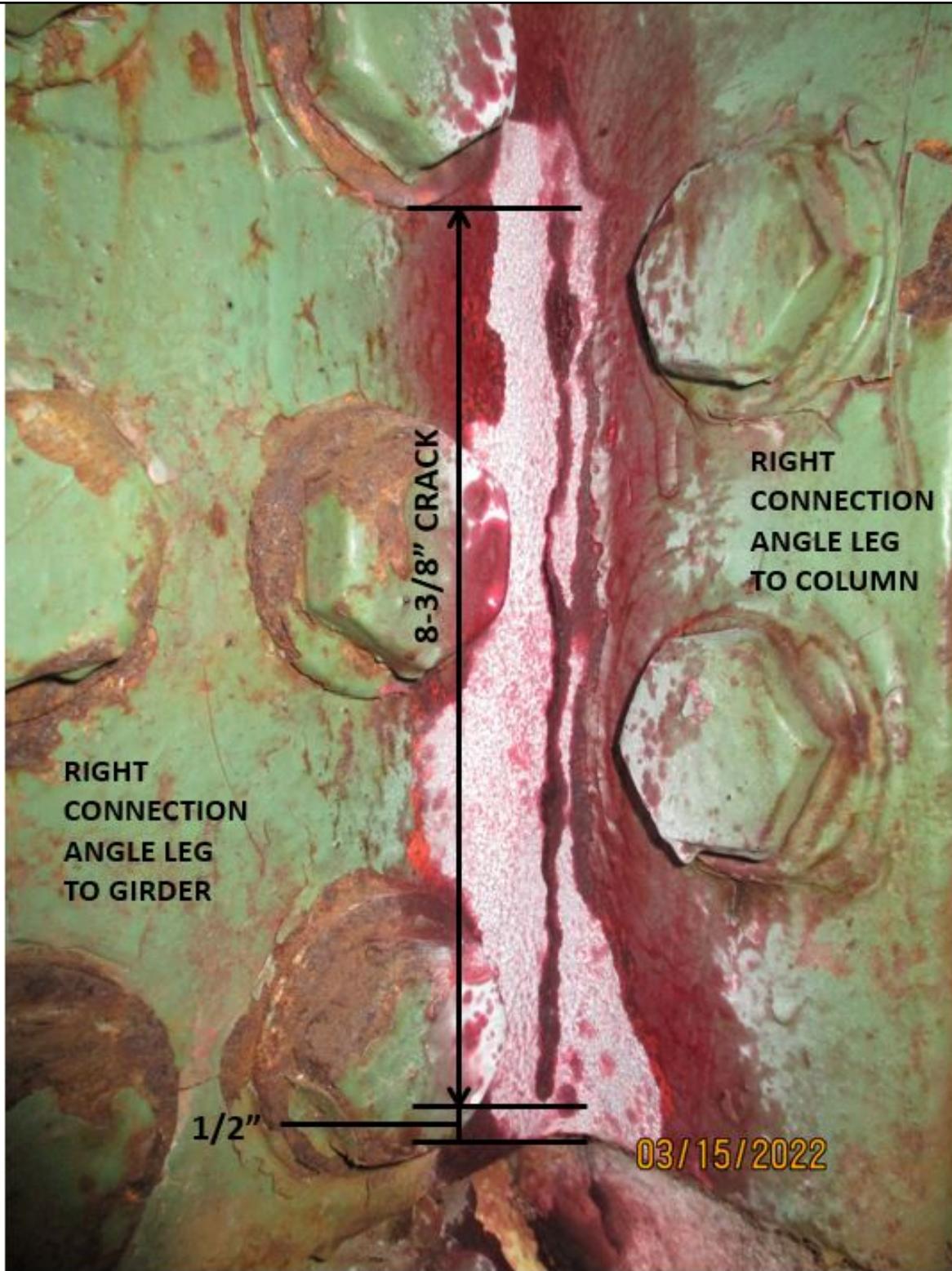
Photo Filename: BC 2-2740.JPG



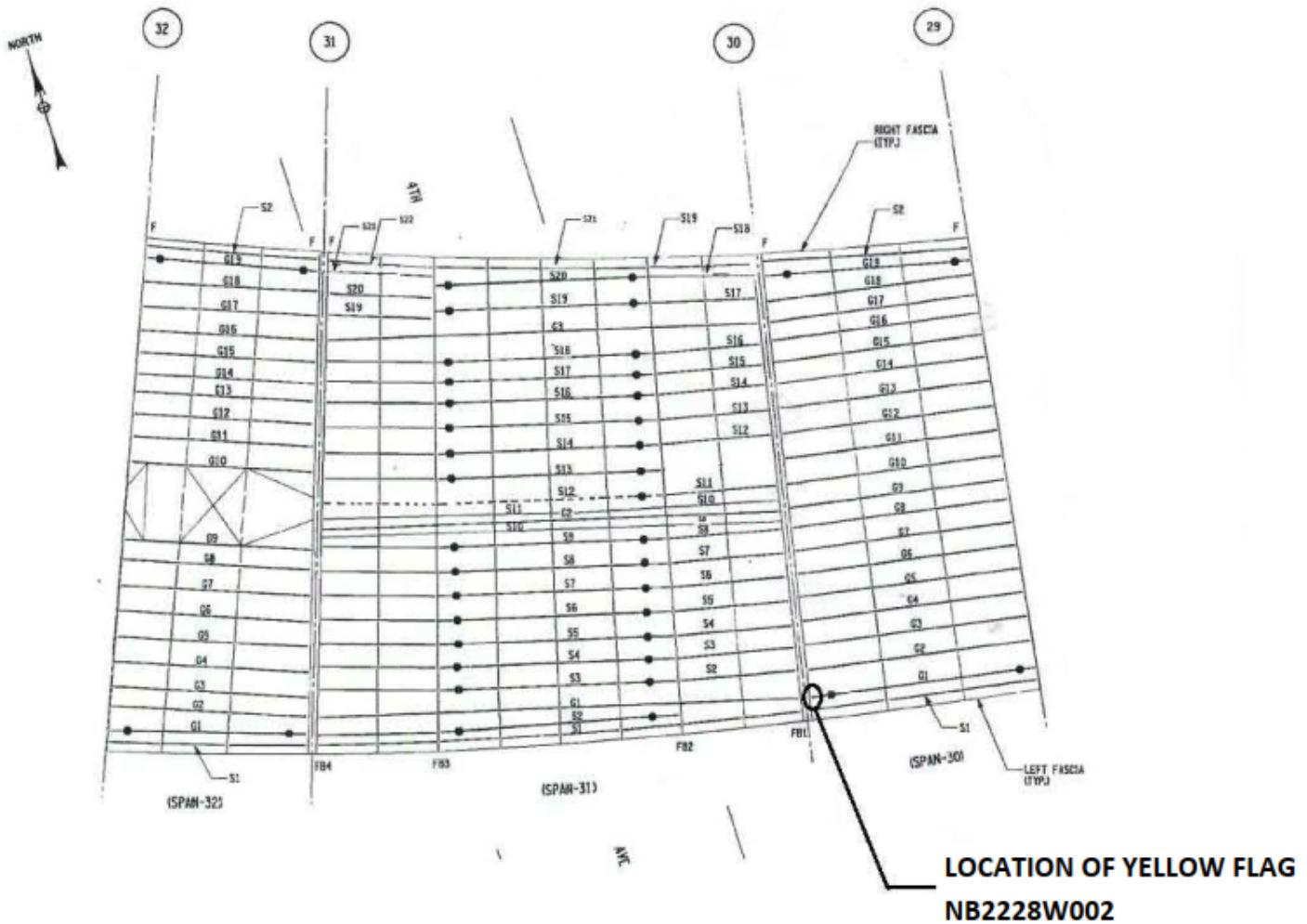
**Attachment Description:** Span 30 Girder G1 at Pier 30 Column C1. General view of the right connection angle before dye penetrant test. Looking end and left.

Photo Number: 5

Photo Filename: BC 2-2759.JPG



**Attachment Description:** Span 30 Girder G1 at Pier 30 Column C1. Close-up view of right connection angle crack after dye penetrant test. Looking end and left.

Photo Number: **6**Photo Filename: **FLAG LOCATION PLAN.png**

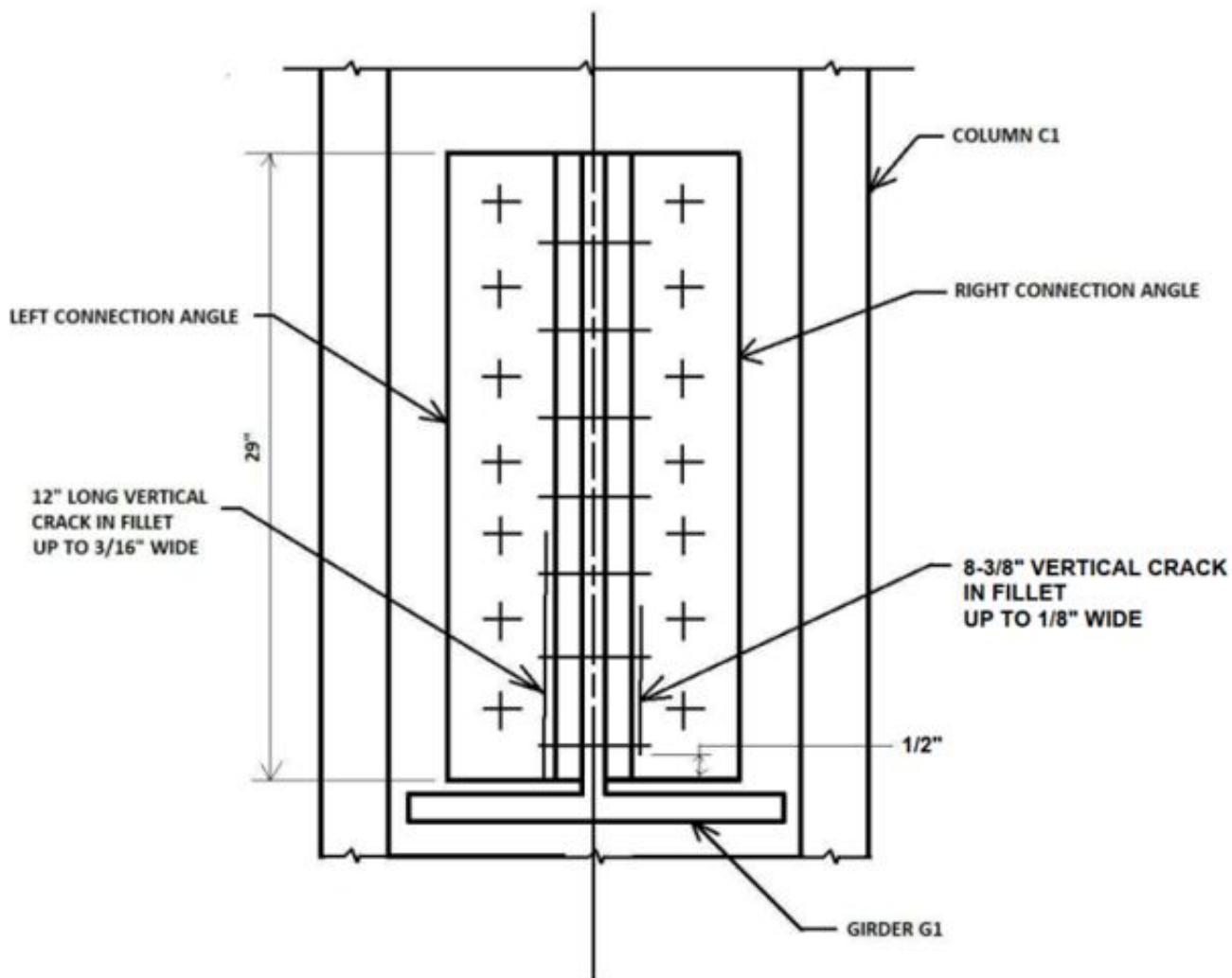
## **FLAG LOCATION PLAN**

**BIN: 1065318**  
**DATE: 2022**

*Attachment Description: BIN 1065318, Framing Plan, Spans 30 - 32*

Photo Number: 7

Photo Filename: Flag Details Sketch.jpg



ELEVATION OF SPAN 30, GIRDER G1 AT PIER 30 COLUMN C1  
LOOKING END

**YELLOW FLAG NB2228W002**  
**FLAG DETAILS SKETCH**

BIN 1065318  
DATE: 2022

*Attachment Description: Sketch of G1 at Pier 30*